

**SJA**

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**confidential**  
**fax**

**To:** Examiner Stacy Whitmore  
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**From:** Sara Chang  
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**Business Phone:** (310) 785-0140  
**Home Phone:**

**Pages:** 15  
**Date/Time:** 12/9/2004 12:55:14 PM  
**Subject:** Unsigned references for 10/047,978

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To Examiner Whitmore,

Here is a better fax than the one sent previously. I apologize for the confusion.

## FAX TRANSMISSION

**DATE:** 12/1/2004  
**TO:** Examiner Stacy Whitmore  
**COMPANY:** USPTO  
**FROM:** Sara Chang  
**PAGES:** 14 (including this page)

Examiner Stacy Whitmore:

For the application S/N 10/047,978, we received a Notice of Allowance mailed on 09/15/2004. Thank you for this Notice of Allowance. However, we noticed that your initials are not next to the references we submitted in five previous IDS's. We submitted the five IDS's on 9/29/03, 10/27/03, 11/5/03, 11/10/03, and 03/22/04. We are including the 1449 Forms and sending it to you according to the dates indicated above. If possible, please initial the five 1449 forms to indicate that you have considered them. If you have any questions, please do not hesitate to call.

Regards,

Sara Chang

Stattler, Johansen & Adeli LLP  
1875 Century Park East  
Suite 1050 10<sup>th</sup> floor  
Century City, CA 90067-2501

Phone No. (310) 785-0140 Ext.307  
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9/29/03

Based on PTO/SB/08 a &amp; b (05-03)

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Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	10/047,978
Filing Date	1/13/02
First Named Inventor	Steven Teig
Group Art Unit	2812
Examiner Name	Stacy A. Whitmore
Attorney Docket Number	SPLX.P0089

Sheet	1	SP	4
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## **RELATED U.S. PATENT DOCUMENTS**

Examiner: Initials	Cite No.	U.S. Patent Document Number	Date of filing MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Related Application Data
<i>[Signature]</i>	1.	2003/0079193	12-07-2001	Steven Teig et al.	Parent application; present application is a continuation of 2003/0079193.
	2.	2003/0018947	12-07-2001	Steven Teig et al.	Application filed on the same day as the parent application 2003/0079193, with the same specification as the present application except for summary and abstract.
	3.	2002/0147958	10-19-2001	Steven Teig et al.	Parent application per the preliminary amendment dated 2/19/03.
	4.	2003/0063614	01-04-2002	Steven Teig et al.	Application with some of the same parent provisional applications and with the same specification as the present application except for summary and abstract.
	5.	2003/0064559	01-04-2002	Steven Teig et al.	Application with some of the same parent provisional applications and with the same specification as the present application except for summary and abstract.
	6.	2003/0063568	01-04-2002	Steven Teig et al.	Application with some of the same parent provisional applications and with the same specification as the present application except for summary and abstract.
	7.	2003/0101428 S/N 10/040,915	01-05-2002	Steven Teig et al.	Continuation of 2003/0079193.
	8.	2003/0101428 S/N 10/040,915	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0101428 does not accurately reflect the claims of S/N 10/040,915.
	9.	2002/0166105 S/N 10/040,948	01-05-2002	Steven Teig et al.	Continuation of 2003/0079193.
	10.	2002/0166105 S/N 10/040,948	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0166105 does not accurately reflect the claims of S/N 10/040,948.
	11.	2003/0043827 S/N 10/040,953	01-05-2002	Steven Teig et al.	Continuation of 2003/0079193.
<i>[Signature]</i>	12.	2003/0043827	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as

Examiner: Signature	<i>[Signature]</i>	Date: Considered	12/15/04
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STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number				10/047,978
Filing Date				1/13/02
First Named Inventor				Steven Teig
Group Art Unit				2812
Examiner Name				Stacy A. Whitmore
Sheet	2	SP	4	Attorney Docket Number
				SPLX.P0089

**RELATED U.S. PATENT DOCUMENTS**

		S/N 10/040,953			the publication 2003/0043827 does not accurately reflect the claims of S/N 10/040,953.
	13.	2003/0023943 S/N 10/040,954	01-05-2002	Steven Teig et al.	Continuation of 2003/0079193.
	14.	2003/0023943 S/N 10/040,954	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0023943 does not accurately reflect the claims of S/N 10/040,954.
	15.	2003/0066042 S/N 10/040,963	01-05-2002	Steven Teig et al.	Continuation of 2003/0079193.
	16.	2003/0066042 S/N 10/040,963	01-05-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0066042 does not accurately reflect the claims of S/N 10/040,963.
	17.	2002/0174412 S/N 10/040,942	01-07-2002	Steven Teig et al.	Continuation of 2003/0079193.
	18.	2002/0174412 S/N 10/040,942	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0174412 does not accurately reflect the claims of S/N 10/040,942.
	19.	2003/0088844 S/N 10/041,957	01-07-2002	Steven Teig et al.	Continuation of 2003/0079193.
	20.	2003/0088844 S/N 10/041,957	01-07-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088844 does not accurately reflect the claims of S/N 10/040,957.
	21.	2002/0199165 S/N 10/046,864	01-13-2002	Steven Teig et al.	Continuation of 2003/0079193.
	22.	2002/0199165 S/N 10/046,864	01-13-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0199165 does not accurately reflect the claims of S/N 10/046,864.
	23.	2003/0066043	01-13-2002	Steven Teig et al.	Continuation of 2003/0088844 per preliminary amendment.
	24.	2003/0115566	01-13-2002	Steven Teig	Continuation of 2003/0088844 per preliminary amendment.

Examiner Signature		Date Considered	12/15/04
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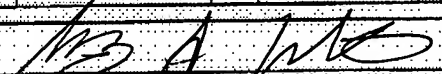
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Substitute for form 1449A/PTO				Application Number	10/047,978
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art. Unit	2812
				Examiner Name	Stacy A. Whilmore
Sheet	3	SP	4	Attorney Docket Number	SPLX.P0089

RELATED U.S. PATENT DOCUMENTS					
25.	2003/0056187 S/N 10/047,982	01-14-2002	Steven Teig et al.	Continuation of 2003/0079193.	
26.	2003/0056187 S/N 10/047,982	01-14-002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0056187 does not accurately reflect the claims of S/N 10/047,982	
27.	2003/0066044	01-13-2002	Steven Teig et al.	Application with some of the same parent provisional applications and with the same specification as the present application except for summary and abstract.	
28.	2003/0066045	01-13-2002	Steven Teig et al.	Application with some of the same parent provisional applications and with the same specification as the present application except for summary and abstract.	
29.	2002/0133798	12-06-2000	Steven Teig et al.	Application regarding related placement technology	
30.	2002/0100007	12-06-2200	Steven Teig et al.	Parent application; present application is a CIP of 2002/0100007.	
31.	2002/0073390 S/N 09/737,210	12-13-2000	Steven Teig et al.	Application regarding related placement technology	
32.	2002/0073390 S/N 09/737,210	12-13-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0073390 does not accurately reflect the claims of S/N 09/737,210	
33.	S/N 09/737,220	12-13-2000	Steven Teig et al.	Application regarding related placement technology	
34.	S/N 09/737,245	12-13-2000	Steven Teig et al.	Application regarding related placement technology	
35.	S/N 09/739,460	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.	
36.	2002/0124231 S/N 09/739,580	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.	
37.	2002/0124231 S/N 09/739,580	12-15-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2002/0124231 does not accurately reflect the claims of S/N 09/739,580.	
38.	S/N 09/739,589	12-15-2000	Steven Teig et al.	Continuation of parent 2002/0100007.	
39.	S/N 09/742,171	12-19-2000	Steven Teig et al.	Continuation of parent 2002/0100007.	
40.	2003/0121015	12-19-2000	Steven Teig et al.	Continuation of parent 2002/0100007.	
Examiner Signature: 			Date Considered: 12/15/04		

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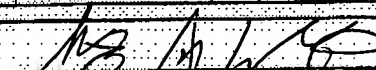
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Substitute for form 1449A/PTO				Application Number	10/047,978
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	2812
				Examiner Name	Stacy A. Whitmore
Sheet	3	SP	4	Attorney Docket Number	SPLX.P0089

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25.	2003/0056187 S/N 10/047,982	01-14-2002	Steven Teig et al.	Continuation of 2003/0079193.
26.	2003/0056187 S/N 10/047,982	01-14-002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0056187 does not accurately reflect the claims of S/N 10/047,982.
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Examiner Signature		Date Considered	12/15/04
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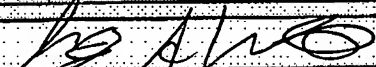
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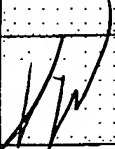

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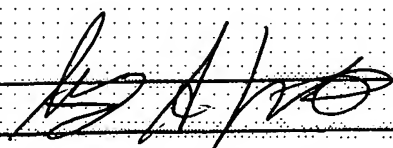
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Examiner Name		Stacy A. Whitmore	
Sheet	4	SP	4
Attorney Docket Number		SPLX,P0089	

**RELATED U.S. PATENT DOCUMENTS**

		S/N 09/745,067			
	41.	2003/0121015 S/N 09/745,067	12-19-2000	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0121015 does not accurately reflect the claims of S/N 09/745,067.
	42.	2002/0069397	01-13-2002	Steven Teig et al.	CIP of parent 2002/0100007.
	43.	2002/0170027	02-20-2002	Steven Teig et al.	CIP of parent 2002/0100007.
	44.	2002/0157075	02-20-2002	Steven Teig et al.	CIP of parent 2002/0100007.
	45.	2003/0088841 S/N 10/329,241	12-23-2002	Steven Teig et al.	Application regarding related placement technology.
	46.	2003/0088841 S/N 10/329,241	12-23-2002	Steven Teig et al.	This Preliminary Amendment is submitted as the publication 2003/0088841 does not accurately reflect the claims of S/N 10/329,241.

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		Application Number	10/047,978		
		Filing Date	1/13/02		
		First Named Inventor	Steven Teig		
		Group Art Unit	2812		
		Examiner Name	Stacy A. Whitmore		
Sheet	1	of	1	Attorney Docket Number	SPLX.P0089

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate); title of the item (book, magazine, journal, serial, symposium, catalog, etc.); date; page(s); volume/issue number(s); publisher; city and/or country where published.	T <sup>6</sup>
	1.	Kastner R et al. "Predictable Routing" IEEE/ACM International Conference on Computer Aided Design: ICCAD - 2000. IEEE/ACM Digest of Technical Papers (CAT. NO.00CH37140). Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA, USA, 5-9 Nov. 2000. Pages 110-113.	
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Substitute for form 1449A/PTO			Application Number	10/047,978	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Filing Date	1/13/02	
			First Named Inventor	Steven Teig	
			Group Art Unit	2812	
			Examiner Name	Stacy A. Whitmore	
Sheet	1	of	6	Attorney Docket Number	SPLX:P0089

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document Number	Kind Code (if known)	Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	2.	4,593,363		06-03-1986	Burstein et al.	
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	21.	6,324,675	B1	11-27-2001	Dutta et al.	

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Substitute for form 1449A/PTO				Application Number	10/047,978
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	2812
				Examiner Name	Stacy A. Whitmore
(use as many sheets as necessary)				Attorney Docket Number	SPLX:P0089
Sheet	2	of	6		

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Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Y <sup>6</sup>
		Office <sup>2</sup>	Number <sup>3</sup>	Kind Code (if known) <sup>4</sup>				
SW	33	JP	411296560	A	10-29-1999	Matsumoto et al.	with English translation of Abstract	
SW	34	JP	2000-82743	A	03-21-2000	Igarashi et al.	with Japanese Patent Office's English translation of Abstract; and with English translation of the application	✓
SW	35	JP	H03-173471	A	07-26-1991	Tawada et al.	with Japanese Patent Office's English translation of Abstract; and with English	✓

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				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	2812
				Examiner Name	Stacy A. Whitmore
Sheet	3	of	6	Attorney Docket Number	SPLX.P0089

FOREIGN PATENT DOCUMENTS							
							translation of the application.
	36	JP	H05-243379	A	09-21-1993	Masako Kuboto	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
	37	JP	H05-102305	A	04-23-1993	Akihiro Sato	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
	38	JP	H07-86407	A	03-31-1995	Shinpei Miura	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓
	39	JP	H09-162279	A	06-20-1997	Masaaki Yohsida	with Japanese Patent Office's English translation of Abstract; and with English translation of the application. ✓

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Substitute for form 1449A/PTO				Application Number	10/047,978
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	2812
				Examiner Name	Stacy A. Whitmore
Sheet	4	of	6	Attorney Docket Number	SPLX:P0089

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published.	
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Substitute for form 1449A/PTO			Application Number	10/047,978
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			Filing Date	1/13/02
			First Named Inventor	Steven Teig
			Group Art Unit	2812
			Examiner Name	Stacy A. Whitmore
(use as many sheets as necessary)			Attorney Docket Number	SPLX:P0089
Sheet	5	of	6	

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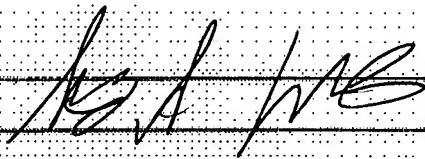
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Substitute for form 1449A/PTO				Application Number	10/047,978
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Filing Date	1/13/02
				First Named Inventor	Steven Teig
				Group Art Unit	2812
				Examiner Name	Stacy A. Whitmore
(use as many sheets as necessary)				Attorney Docket Number	SPLX.P0089
Sheet	6	of	6		

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Examiner Signature		Date Considered	12/13/04
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Sheet	1	of	1	Attorney Docket Number	SPLX.P0089

U.S. PATENT DOCUMENTS:						
Examiner Initials	Cite No.	U.S. Patent Document		Date of Publication: MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
	1.	2002/0182 844	A1	12-05-2002	Igarashi et al.	
	2.	2003/0053 399	A1	01-02-2003	Igarashi et al.	
	3.	5,663,891		09-02-1997	Barnji et al.	
	4.	5,757,089		05-26-1998	Ishizuka	
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	7.	6,226,560	B1	05-01-2001	Hama et al.	
	8.	6,519,751	B2	02-11-2003	Sriram et al.	
	9.	6,543,043	B1	04-01-2003	Wang et al.	

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate); title of the item (book, magazine, journal, serial, symposium, catalog, etc.); date; page(s); volume/issue number(s); publisher; city and/or country where published.			P*
	10.	Hu, J. et al.; A Timing-Constrained Algorithm for Simultaneous Global Routing of Multiple Nets, IEEE/ACM International Conference on Computer Aided Design: ICCAD - 2000, IEEE/ACM Digest of Technical Papers (CAT. NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA, USA, 5-9 Nov. 2000, pp.99-103.			
	11.	Kastner, R. et al. Predictable Routing, IEEE/ACM International Conference on Computer Aided Design: ICCAD - 2000, IEEE/ACM Digest of Technical Papers (CAT. NO.00CH37140), Proceedings of International Conference on Computer Aided Design (ICCAD), San Jose, CA, USA, 5-9 Nov. 2000. pp. 110-113.			

Examiner Signature		Date Considered	12/15/04
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SW	1	2003/0121017	A1	06-26-2003	Andreev et al.	
	2	6,088,519		07-11-2000	Koford	

NON-PATENT LITERATURE DOCUMENTS			
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SW	3	Chen et al.; Optimal Algorithms for Bubble Sort Based Non-Manhattan Channel Routing, May 1994, Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions Volume: 13 Issues: pp. 603-609.	

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